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TITLE : PRODUCTION OF ROADBED MATERIAL

↳ ballast

ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for producing a sufficient roadbed material having a high mixing ratio of coal ash, small percentage of abrasion, and small dispersion of the percentage of abrasion by using a mixture of a specific quantity of specific coal ash with calcium compound(s).

cendre de charbon

SOLUTION: This roadbed material is produced by the 1st step of mixing coal ash having bulk density of at least 0.8g/cm³, average particle size of 5-40 μ m, and 35wt.% aluminum as Al₂O₃ with calcium compound(s) at a ratio by weight of (40:60) to (95:5), the 2nd step of forming the mixture to a predetermined shape, the 3rd step of curing the formed mixture at 30-100°C, the 4th or 5th step of curing the mixture further in an autoclave, the 5th or 4th step of crushing the solidified mixture. As calcium compounds, calcium oxide, calcium hydroxide, calcium silicate, calcium carbonate, etc., are recommended.

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*Sous-base
de la route*